

SECTION 02083C

REMOVAL OF POLYCHLORINATED BIPHENYL
FLUORESCENT LIGHT BALLASTS
(REVISED 09 Nov 2000)

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. This section of the specifications outlines detailed instructions on the proper removal and packaging of all fluorescent light ballasts containing polychlorinated biphenyls (PCB) at Wright-Patterson Air Force Base. The Office of Environmental Management (EM) is the office of primary responsibility for this section of the specifications.
- B. Materials containing PCBs that result from cleanup of spills caused by the contractor shall be the full responsibility of the contractor. These materials shall be contained, turned into EM, and disposed of at the contractor's expense.

1.02 REFERENCES

- A. Environmental Protection Agency (EPA):
 - 1. Title 40 Code of Federal Regulations, Part 761, all applicable Subparts, the most recent amendments.
- B. Occupational Safety and Health Administration (OSHA):
 - 1. Title 29 Code of Federal Regulations, Part 1910.120, 1910.1200 and Part 1926; all applicable Subparts, and the most recent amendments.
- C. Department of Transportation (DOT):
 - 1. Title 49 Code of Federal Regulations (CFR), Part 171-180 and other applicable parts; and the most recent amendments.

1.03 SPILLS

- A. Immediately report PCB spills of any size to Environmental Management, 257-7152, and Civil Engineering Service Desk, 257-6764.
- B. All materials and/or surfaces contaminated with PCBs spilled by the contractor during the work shall be the contractor's responsibility. The contractor shall be responsible for all costs associated with the cleanup, testing for contamination, restoration of area as specified in 40CFR761.120;, and dispose of the contaminated materials in accordance with 40 CFR 761.60 and this specification; this shall incur no additional cost to the government.

1.04 SUBMITTALS

- A. +

- B. POST-SUBMITTALS

1. Within twenty-four hours after the contractor has completed ballast removal and containerized the ballast, the contractor shall complete a WPAFB form 1438 and submit it to the contract QAE for coordination. The QAE shall then sign the 1438, submit it to EM and contact EM at 257-7152 to schedule pick-up of the ballasts. The QAE shall ensure at this time the 30-day limit for temporary storage is not exceeded. The government will provide transportation of the ballast.

1.05 PROTECTIVE EQUIPMENT

- A. The contractor shall provide and maintain all personal protective equipment (PPE) required by 29 CFR 1910.120 to perform PCB spill cleanup operations. The contractor shall also provide the necessary PPE for the removal of PCB ballasts from light fixtures. This equipment is to be disposable to the extent allowable by regulations.
 1. Protective equipment shall include, but not be limited to: gloves, coveralls, safety shoes, safety glasses, and hardhats.

1.06 DEFINITIONS

- A. POLYCHLORINATED BIPHENYL (PCB): Any chemical substance that is limited to the biphenyl molecule that has been chlorinated to varying degrees or any combination of substances which contains such substance.
- B. FLUORESCENT LIGHT BALLAST: A device that electrically controls fluorescent light fixtures and includes a capacitor containing 0.1 kg. or less of dielectric fluid.
- C. PCB FLUORESCENT LIGHT BALLAST: A light ballast that contains PCB at a concentration above 50 PPM. A fluorescent light ballast that is NOT marked "No PCBs" shall be considered as a PCB ballast.
- D. PCB DEBRIS: Any debris, such as light fixtures and personal protective equipment, that is contaminated with PCB.
- E. NON-PCB BALLAST: A light ballast that is manufactured after 1979 or specifically marked by the manufacturer as not containing PCB or for which manufacturer's literature is available by serial or catalog number to support that the item does not contain PCB. Non-PCB items may be handled as solid waste. However, at the contractor's discretion, non-PCB ballast, light fixtures and other metals may be recycled by the WPAFB Recycling Center at no cost to the contractor. For more information contact EM at 257-5535.
- F. PCB SPILL: The intentional and/or unintentional spill, leak, and other uncontrolled discharges where the release results in any quantity of PCB, running off or about to run off the external surface of the equipment; and the contamination resulting from those releases.

PART 2 - EXECUTION

2.01 SECURITY OF SITES

- A. Install physical barriers (i.e. self-supporting barricades, roping, caution tape, etc.) to secure work site where PCB ballasts are being removed and stored.

2.02 SPILL CONTAINMENT

- A. The contractor shall install temporary covers (i.e. plastic drop cloths) over surfaces (floor, carpet, tables) that may come in contact with PCB ballasts.

2.03 EQUIPMENT DECONTAMINATION

- A. Any non-disposable item contaminated with PCB shall be decontaminated in accordance with 40 CFR 761.

2.04 REMOVAL AND PACKAGING

- A. Ballasts shall be visually inspected to determine whether or not they are marked "No PCB". If ballasts are not marked "No PCB", treat them as containing PCBs. If PCB, remove the ballast(s) from the fixture. Do not puncture or damage the ballast in any way.
- B. Place PCB light ballasts into 30 or 55 gallon open head steel (DOT type 1A2) shipping drums with a packaging design type performance standard of either 'X', 'Y' or 'Z'. Do NOT place more than one hundred fifty F40 (ballasts from four foot light fixtures) or more than seventy-five F96 (ballasts from eight foot fixtures) light ballasts into one drum. The gross weight of loaded drums shall not weigh more than 600 pounds. The contractor shall provide drums that meet all Department of Transportation specifications and be in good condition. Leaking PCB ballasts shall be wrapped in plastic and placed in drums with other non-leaking ballasts. Mark the drums as containing PCB light ballasts, the facility building number and the date when the first ballast was placed within the container.
- C. Any contaminated portions of the light fixture, resulting from leaking PCB ballasts, shall be cut away and placed into separate 30 or 55 gallon open head steel drums (DOT type 1A2 with a packaging design type performance standard of either 'X', 'Y' or 'Z'). Do not mix ballasts and debris. Any contaminated plastic or personal protective equipment shall also be placed into these drums for disposal. Mark the drums as containing PCB debris, the facility building number and the date the debris was placed within the container.
- D. At the time of use, the contractor shall mark each container individually with the following:
 - 1. The PCB label as shown in Figure 1.
 - 2. The container accumulation start date (i.e. date removed from service).
 - 3. Contents of container, i.e. light ballasts, debris.
 - 4. The building number of where the ballast were removed from.
- E. Ensure that all drum lids are secure and fully tightened with bolt ring pointing downward.
- F. The contractor shall be responsible for repackaging any containers that are considered by Environmental Management to be unsuitable for shipment.

2.05 TEMPORARY STORAGE

- A. The temporary storage location for the drummed PCB ballasts shall be approved by Environmental Management. Drums of PCB items shall be stored indoors.
- B. The contractor shall not have any PCB light ballasts in temporary storage for over 30 calendar days. Do not relocate items for the purpose of extending the storage time. The contractor shall contact EM at 257-7152 if the thirty-day storage limit will be exceeded.

2.06 GOVERNMENT PROTECTION

- A. The contractor shall be liable for all claims, costs, losses, damages and other expenses the government may incur as a result of the contractor's negligence or willful misconduct during the performance of this contract.

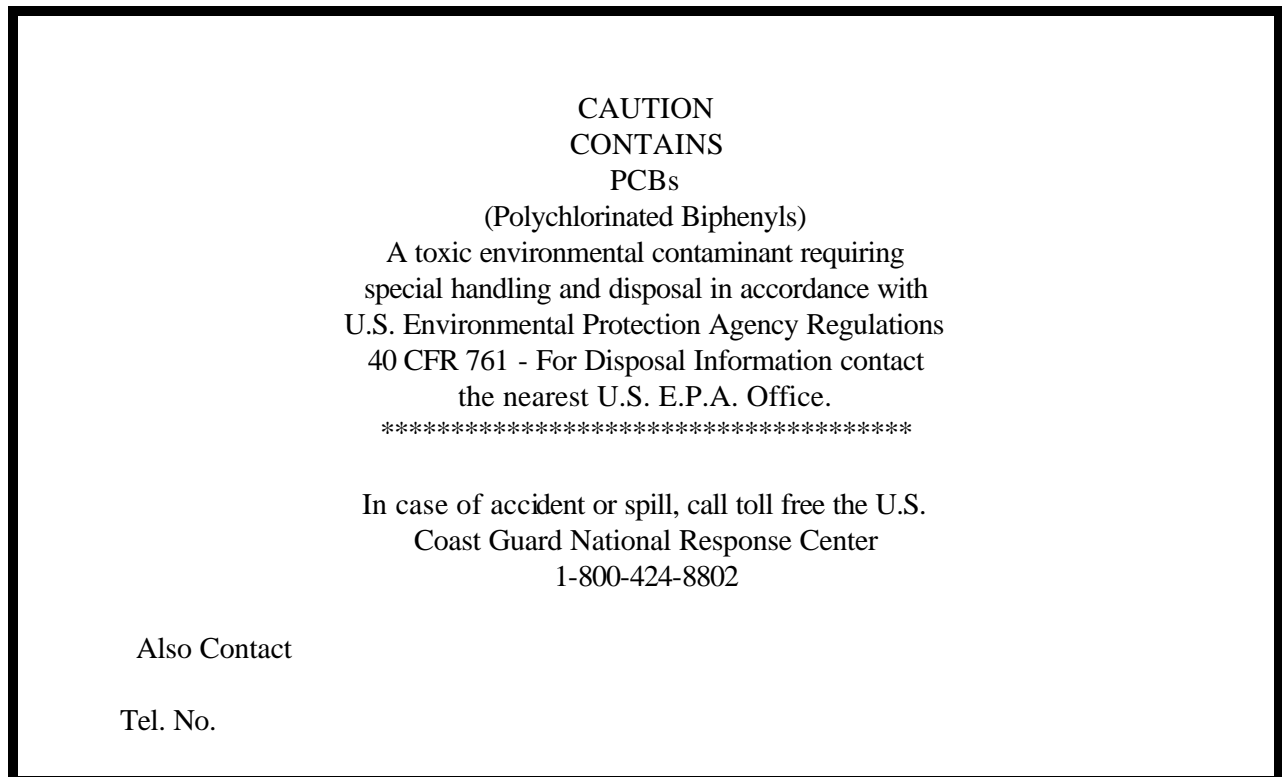


Figure 1: Large PCB Mark. Letters and striping shall be on a yellow background and shall be sufficiently durable to equal or exceed the life (including storage for disposal) of the PCB article, PCB equipment, or PCB container. The size of the mark shall be at least 15.25 cm (6 inches) on each side.

END OF SECTION